# CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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T-2654


To,

Assistant Executive Engineer
Yelahanka New Town Sub Division,
BBMP.

10th March 2014

Dear Sir,

**Sub:** Testing of Materials.

As requested, the required tests were carried out for the Materials samples supplied by you, for the work of **'Improvements of drains and footpath in 4th phase 208 Area in Attur ward no. 03 of Yelahanka New Town Sub Division.'**

Please find the enclosed Test Reports of the above.

**Thanking You,**
**For Civil Tech Labs**

Khushboo

CIVIL TECH LABS (BANGALORE)

**(KHUSHBOO L.)**
**Deputy Quality Manager**

# CIVILTECH LABS

## TEST REPORT ON FINE AGGREGATES Ref.IS:383/2386

| | |
|---|---|
| Name of the Client | AEE, Yelahanka New Town Sub Division, BBMP |
| Name of Work | Improvements of drains and footpath in 4th phase 208 Area in Attur ward no. 03 of Yelahanka New Town Sub Division. |
| Agency Name | M/s. Technical Manager (West), KMDF. |

| Sample | Date of Testing | Specific Gravity | IS Sieve designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement As Per IS 383-1970 | | | | Grading Zone |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ZONE-I | ZONE-II | ZONE-III | ZONE-IV | |
| Fine Aggregates | 10/03/2014 | 2.56 | 10 | 100 | 100 | 100 | 100 | 100 | II |
| | | | 4.75 | 97.2 | 90-100 | 90-100 | 90-100 | 95-100 | |
| | | | 2.36 | 85.6 | 60-95 | 75-100 | 85-100 | 95-100 | |
| | | | 1.18 | 73.6 | 30-70 | 55-90 | 75-100 | 90-100 | |
| | | | 0.6 | 43.6 | 15-34 | 35-59 | 60-79 | 80-100 | |
| | | | 0.3 | 24.8 | 5-20 | 8-30 | 12-40 | 15-50 | |
| | | | 0.15 | 7.6 | 0-10 | 0-10 | 0-10 | 0-15 | |

**Note:**

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

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Lab Incharge
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## TEST REPORT ON CEMENT

| | |
|---|---|
| Name of the Client | AEE, Yelahanka New Town Sub Division, BBMP |
| Name of Work | Improvements of drains and footpath in 4th phase 208 Area in Attur ward no. 03 of Yelahanka New Town Sub Division. |
| Agency Name | M/s. Technical Manager (West), KRIDL |

| Tests on Cement | Test Date | Tests | Test Method As Per IS & Apparatus | | Results | | Requirements As Per IS 8112 1989 | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | IS Code | Method | Value | Unit | | |
| | 10/03/2014 | Initial Setting Time | IS-4031 (Part-5) 1988 | VICAT | 54 | min | Not Less Than 30 Minutes | Satisfies Requirement |
| | | Final Setting Time | IS-4031 (Part-5) 1988 | VICAT | 486 | min | Not More Than 600 Minutes | Satisfies Requirement |
| | | Soundness | IS-4031 (Part-3) 1988 | LE-CHATELIER | 4 | mm | Not More Than 10 mm | Satisfies Requirement |

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## TEST REPORT ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/1986

| | |
|---|---|
| Name of the Client | AEE, Yelahanka New Town Sub Division, BBMP |
| Name of Work | Improvement of drains and footpath in 4th phase 208 Area in Attur ward no. 03 of Yelahanka New Town Sub Division. |
| Agency Name | M/s. Technical Manager (West), KRIDL |

| Sample | Date of Testing | Specific Gravity | Absorption in % | IS Sieve Designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement As Per IS 383-1970 | Remarks |
|---|---|---|---|---|---|---|---|
| 20mm Down Graded | 10/03/2014 | 2.62 | 0.31 | 40 | 100 | 100 | Satisfies The Requirement |
| | | | | 20 | 97.4 | 95-100 | |
| | | | | 10 | 42.6 | 25-55 | |
| | | | | 4.75 | 8.6 | 0-10 | |

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## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Name of the Client | AEE, Yelahanka New Town Sub Division, BBMP |
| Project | Improvements of drains and footpath in 4th phase 20ft Area in Attur ward no. 03 of Yelahanka New Town Sub Division |
| Agency | M/s. Technical Manager (West), KRIDL |
| Grade of Concrete | M-15 |
| No. of cubes tested | 3 |
| Dimension of Specimen | 150mmx150mmx150mm |
| Cross Sectional Area | 22500 Sq.mm |
| Technical Reference | IS: 516-1959[Reaffirmed 2004] |

| Sl.No | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/Sq.mm) | Avg Compressive Strength (N/Sq.mm) |
|---|---|---|---|---|---|---|---|---|
| 1 | Sample 1 | 15/04/2014 | 13/05/2014 | 28 | 8.17 | 345 | 15.47 | 15.64 |
| 2 | | | | | 8.18 | 352 | 15.64 | |
| 3 | | | | | 8.19 | 356 | 15.82 | |

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## TEST REPORT ON CONCRETE CUBES

| | |
|---|---|
| Name of the Client | AEE, Yelahanka New Town Sub Division, BBMP |
| Project | Improvements of drains and footpath in 4th phase 208 Area in Attur ward no. 03 of Yelahanka New Town Sub Division |
| Agency | M/s. Technical Manager (West), BBMP. |
| Grade of Concrete | M-15 |
| No. of cubes tested | 3 |
| Dimension of Specimen | 150mmx150mmx150mm |
| Cross Sectional Area | 22500 Sq.mm |
| Technical Reference | IS: 516-1959] Reaffirmed 2004] |

| Sl.No | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/Sq.mm) | Avg Compressive Strength (N/Sq.mm) |
|---|---|---|---|---|---|---|---|---|
| 1 | Sample-2 | 15/04/2014 | 13/05/2014 | 28 | 8.10 | 354 | 15.73 | 16.58 |
| 2 | | | | | 8.20 | 356 | 15.82 | |
| 3 | | | | | 8.22 | 360 | 16.00 | |

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